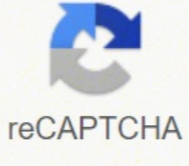




I'm not robot



Open

Name	Graphical Symbol	Algebraic Function	Truth Table															
AND		$F = A \cdot B$ $F = AB$	<table border="1"> <tr><td>A</td><td>B</td><td>F</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> </table>	A	B	F	0	0	0	0	1	0	1	0	0	1	1	1
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OR		$F = A + B$	<table border="1"> <tr><td>A</td><td>B</td><td>F</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>1</td></tr> </table>	A	B	F	0	0	0	0	1	1	1	0	1	1	1	1
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NOT		$F = \bar{X}$ $F = X'$	<table border="1"> <tr><td>X</td><td>F</td></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>0</td></tr> </table>	X	F	0	1	1	0									
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NOR		$F = \overline{A+B}$	<table border="1"> <tr><td>A</td><td>B</td><td>F</td></tr> <tr><td>0</td><td>0</td><td>1</td></tr> <tr><td>0</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> </table>	A	B	F	0	0	1	0	1	0	1	0	0	1	1	0
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XOR		$F = A \oplus B$	<table border="1"> <tr><td>A</td><td>B</td><td>F</td></tr> <tr><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>0</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>0</td></tr> </table>	A	B	F	0	0	0	0	1	1	1	0	1	1	1	0
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TOPIC: ELECTRONICS

4.3 UNDERSTANDING TRANSISTORS

CHAPTER HIGHLIGHT:

Transistor

1. A simple junction transistor consists of a crystal of one type of doped semiconductor which is sandwiched between two crystal of opposite type

npn transistor		pnp transistor	
p-type semiconductor sandwiched with n-type semiconductor		n-type semiconductor sandwiched with p-type semiconductor	
<p>Collector</p> <p>Base</p> <p>Emitter</p>	<p>Symbol</p>	<p>Collector</p> <p>Base</p> <p>Emitter</p>	<p>Symbol</p>

Logic Gates & Masks

Complete the truth tables for each logic gate:

<table border="1"> <tr><th>A</th><th>Y</th></tr> <tr><td>1</td><td></td></tr> <tr><td>0</td><td></td></tr> </table>	A	Y	1		0		<table border="1"> <tr><th>A</th><th>B</th><th>Y</th></tr> <tr><td>1</td><td>1</td><td></td></tr> <tr><td>1</td><td>0</td><td></td></tr> <tr><td>0</td><td>1</td><td></td></tr> <tr><td>0</td><td>0</td><td></td></tr> </table>	A	B	Y	1	1		1	0		0	1		0	0		<table border="1"> <tr><th>A</th><th>B</th><th>Y</th></tr> <tr><td>1</td><td>1</td><td></td></tr> <tr><td>1</td><td>0</td><td></td></tr> <tr><td>0</td><td>1</td><td></td></tr> <tr><td>0</td><td>0</td><td></td></tr> </table>	A	B	Y	1	1		1	0		0	1		0	0	
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Logic Gates

1. Logic Gate

AND

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0	0	0
0	1	0
1	0	0
1	1	1

OR

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

NAND

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

XOR

A	B	Y
0	0	0
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